L Number	Hits	Search Text	DB	Time stamp
1	1	("5057855").PN.	USPAT;	2003/09/26
			US-PGPUB	11:19
2	1	("4635073").PN.	USPAT; US-PGPUB	2003/09/26
-	231	347/50.ccls.	USPAT; US-PGPUB	2003/09/26
_	109	347/50.ccls. and power	USPAT;	2002/05/28
_	49	347/50.ccls. and power and voltage	US-PGPUB USPAT;	12:26 2002/05/28
_	1	347/50.ccls. and MEMS	US-PGPUB USPAT;	12:48
	_		US-PGPUB	12:56
-	76	347/50.ccls.	EPO; JPO; DERWENT;	2002/05/28 12:57
-	5	347/50.ccls. and power	IBM_TDB EPO; JPO; DERWENT;	2002/05/28 12:58
-	0	347/439.ccls.	IBM_TDB EPO; JPO; DERWENT;	2002/05/28 12:58
_	1	("4899174").PN.	IBM_TDB USPAT; US-PGPUB	2002/05/28
-	1	("5177502").PN.	USPAT;	2002/05/28
-	21		US-PGPUB USPAT;	15:34 2002/05/29
_	60733	347/1-109.ccls. 439/\$.ccls.	US-PGPUB USPAT;	17:11 2002/05/28
_	1408	 439/\$.ccls. and ((bus adj bar\$1) or	US-PGPUB USPAT;	16:49 2002/05/28
		busbar\$1)	US-PGPUB	16:53
_	736	busbar\$1) and power	USPAT; US-PGPUB	2002/05/28 16:55
-	224	439/\$.ccls. and ((bus adj bar\$1) or busbar\$1) and power and TAB	USPAT; US-PGPUB	2002/05/28
-	77		USPAT; US-PGPUB	2002/05/28
-	31	l	USPAT; US-PGPUB	2002/05/28
-	53172		USPAT; US-PGPUB	2002/05/28
-	12416	439/\$.ccls.	EPO; JPO; DERWENT;	2002/05/28 16:49
_	157	439/\$.ccls. and ((bus adj bar\$1) or busbar\$1)	IBM_TDB EPO; JPO; DERWENT;	2002/05/28 16:50
-	1	439/\$.ccls. and ((bus adj bar\$1) or busbar\$1) and power and TAB	IBM_TDB EPO; JPO; DERWENT;	2002/05/28
	222	_	IBM_TDB	
-	803	174/\$.ccls. and ((bus adj bar\$1) or busbar\$1)	USPAT; US-PGPUB	2002/05/28 17:11
-	518	174/\$.ccls. and ((bus adj bar\$1) or busbar\$1) and power	USPAT; US-PGPUB	2002/05/28
-	83		USPAT; US-PGPUB	2002/05/28
-	27	174/\$.ccls. and ((bus adj bar\$1) or	USPAT;	2002/05/28
_	11922	busbar\$1) and power and TAB and print\$5 174/\$.ccls.	US-PGPUB EPO; JPO; DERWENT;	16:59 2002/05/28 17:07
-	163	174/\$.ccls. and ((bus adj bar\$1) or busbar\$1)	IBM_TDB EPO; JPO; DERWENT; IBM TDB	2002/05/28 17:11
-	19	174/\$.ccls. and ((bus adj bar\$1) or busbar\$1) and power	EPO; JPO; DERWENT; IBM TDB	2002/05/28 17:11
_	1	("4400709").PN.	USPAT; US-PGPUB	2002/05/28 19:10

Search History 9/26/03 11:58:57 AM

Page 1

Updale Search 2

_	158	(printhead\$2 and MEMS) and 347/1-109.ccls.	USPAT;	2002/05/29
l _	135	34//1-109.ccis. (printhead\$2 and MEMS and chip) and	US-PGPUB USPAT;	17:11 2002/05/29
	133	347/1-109.ccls.	US-PGPUB	17:12
_	2	347/50.ccls. and TAB and ((double adj	USPAT;	2002/06/06
	_	sided) or double-sided)	US-PGPUB	15:08
_	1	("5494698").PN.	USPAT;	2002/06/06
	_	, ,	US-PGPUB	14:16
-	62	thermal adj bend adj actuator	USPAT;	2002/06/06
		-	US-PGPUB	15:09
-	89	printhead and interconnect and (one adj	USPAT;	2002/06/07
		edge)	US-PGPUB	11:33
-	89	printhead and interconnect and (one adj	USPAT;	2002/06/07
		edge)	US-PGPUB	11:35
-	9	printhead and (interconnect same (one adj	USPAT;	2002/06/07
	175	edge)) 347/42.ccls.	US-PGPUB	11:36 2002/06/11
-	1/3	347/42.CCIS.	USPAT; US-PGPUB	11:06
l _	82	347/42.ccls. and power	USPAT;	2002/06/11
		o, in out in power	US-PGPUB	11:06
_	13	347/42.ccls. and power and interconnect	USPAT;	2002/06/11
		• • • • • • • • • • • • • • • • • • • •	US-PGPUB	11:18
-	337.	347/13	USPAT;	2002/06/11
		,	US-PGPUB	11:18
-	85	347/13.ccls.	USPAT;	2002/06/11
	_		US-PGPUB	11:18
_	62	347/13.ccls. and power	USPAT;	2002/06/11
	_	247/12	US-PGPUB	11:18
_	6	347/13.ccls. and power and interconnect	USPAT; US-PGPUB	2002/06/11
	290	347/237.ccls.	USPAT;	2002/06/11
	2,90	547/257.0015. 	US-PGPUB	11:29
_	186	347/237.ccls. and power	USPAT;	2002/06/11
		F	US-PGPUB	11:30
_	11	347/237.ccls. and power and interconnect	USPAT;	2002/06/11
			US-PGPUB	11:41
-	274	347/238.ccls.	USPAT;	2002/06/11
			US-PGPUB	11:41
-	149	347/238.ccls. and power	USPAT;	2002/06/11
l _	8	347/238.ccls. and power and interconnect	US-PGPUB USPAT;	11:42 2002/06/11
	١	347/230.ccis. and power and interconnect	US-PGPUB	11:45
_	11	347/50,42,13,237,238.ccls. and inkjet and	USPAT;	2002/06/11
		LED	US-PGPUB	12:03
-	33	347/50,42,13,237,238.ccls. and ((wire adj	USPAT;	2002/06/11
		bond\$3) same TAB)	US-PGPUB	11:54
-	3	347/50,42,13,237,238.ccls. and (inkjet	USPAT;	2002/06/11
		same LED)	US-PGPUB	12:03
-	2	347/50 and power\$4 and (bus\$4 adj bar\$2)	USPAT;	2003/03/13
			US-PGPUB;	16:00
			EPO; JPO; DERWENT;	
			IBM TDB	
-	58	347/50 and power\$4 and bus\$4	USPAT;	2003/03/13
			US-PGPUB;	16:14
			EPO; JPO;	
1			DERWENT;	
			IBM_TDB	
-	62	347/42 and power\$4 and bus\$4	USPAT;	2003/03/13
			US-PGPUB;	16:35
			EPO; JPO;	
			DERWENT;	,
l _	55	(347/42 and power\$4 and bus\$4) not	IBM_TDB USPAT;	2003/03/13
	33	(347/42 and power\$4 and bus\$4) not (347/50 and power\$4 and bus\$4)	US-PGPUB;	16:15
		1011/00 and powerys and busys	EPO; JPO;	10.10
			DERWENT;	
			IBM TDB	
				

-	72	347/13 and power\$4 and bus\$4	USPAT;	2003/03/13
·	1		US-PGPUB;	16:26
			EPO; JPO;	
			DERWENT;	
		/247/12 and marranch and brack \ \ mat	IBM_TDB	2002/02/12
-	66	(347/13 and power\$4 and bus\$4) not	USPAT;	2003/03/13
1		(347/50 and power\$4 and bus\$4)	US-PGPUB;	16:26
1			EPO; JPO;	
			DERWENT;	
	48	//247/12 and novemed and hyped \ mat	IBM_TDB USPAT;	2003/03/13
-	40	((347/13 and power\$4 and bus\$4) not (347/50 and power\$4 and bus\$4)) not	•	16:26
		((347/42 and power\$4 and bus\$4) not	US-PGPUB; EPO; JPO;	10:20
	}	(347/42 and power\$4 and bus\$4))	DERWENT;	
	:	(347/30 and powers4 and busy4 //	IBM TDB	
_	97	347/237 and power\$4 and bus\$4	USPAT;	2003/03/13
		31//23/ and powery and busy	US-PGPUB;	16:51
			EPO; JPO;	10.01
			DERWENT;	
			IBM TDB	
_	95	(347/237 and power\$4 and bus\$4) not	USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4)	US-PGPUB;	16:36
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
-	92	((347/237 and power\$4 and bus\$4) not	USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4)) not	US-PGPUB;	16:36
		(347/42 and power\$4 and bus\$4)	EPO; JPO;	
		·	DERWENT;	
			IBM_TDB	
-	86		USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4)) not	US-PGPUB;	16:39
		(347/42 and power\$4 and bus\$4)) not	EPO; JPO;	
		(347/13 and power\$4 and bus\$4)	DERWENT;	
	_		IBM_TDB	/
-	1	(US-4455578-\$).did.	USPAT	2003/03/13
		247/020	**********	16:39
-	59	347/238 and power\$4 and bus\$4	USPAT;	2003/03/13
	1		US-PGPUB; EPO; JPO;	16:53
			DERWENT;	
			IBM TDB	
_	59	(347/238 and power\$4 and bus\$4) not	USPAT;	2003/03/13
	"	(347/50 and power\$4 and bus\$4)	US-PGPUB;	16:53
		121, 20 and ponder and basy 1	EPO; JPO;	-3.25
			DERWENT;	
			IBM TDB	
_	58	((347/238 and power\$4 and bus\$4) not	USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4)) not	US-PGPUB;	16:53
		(347/42 and power\$4 and bus\$4)	EPO; JPO;	
			DERWENT;	
Ì			IBM_TDB	
-	54	1 , , ,	USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4)) not	US-PGPUB;	16:53
		(347/42 and power\$4 and bus\$4)) not	EPO; JPO;	
		(347/13 and power\$4 and bus\$4)	DERWENT;	
			IBM_TDB	
-	31		USPAT;	2003/03/13
		(347/50 and power\$4 and bus\$4)) not	US-PGPUB;	16:54
		(347/42 and power\$4 and bus\$4)) not	EPO; JPO;]
		(347/13 and power\$4 and bus\$4)) not	DERWENT;	
_	3	(347/237 and power\$4 and bus\$4)	IBM_TDB	2002/02/17
_	3	"6255588"	USPAT;	2003/03/17
_	22	"4506272"	US-PGPUB USPAT;	2003/03/17
	22	1000212	USPAT; US-PGPUB	12:08
_	1	("4899174").PN.	USPAT;	2003/03/17
	1	1	US-PGPUB	12:08
	1	L	1 22 1 21 01	

-	853	347/50	USPAT;	2003/09/16
			US-PGPUB;	16:23
			EPO; JPO;	
			DERWENT;	[
			IBM_TDB	
-	14	347/50 and (busbar\$2 or (bus adj bar\$2))	USPAT;	2003/09/16
			US-PGPUB;	16:09
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	25548	(busbar\$2 or (bus adj bar\$2))	USPAT;	2003/09/16
			US-PGPUB;	16:11
			EPO; JPO;	l
			DERWENT;	
			IBM_TDB	
-	14	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	USPAT;	2003/09/16
		bar\$2)))	US-PGPUB;	16:11
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
-	679	347/42	USPĀT;	2003/09/16
			US-PGPUB;	16:12
	1		EPO; JPO;	1
			DERWENT;	
			IBM TDB	
-	14	347/42 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
		bar\$2)))	US-PGPUB;	16:12
			EPO; JPO;	·
			DERWENT;	
			IBM TDB	
_	10	(347/42 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
		bar\$2)))) not (347/50 and (busbar\$2 or	US-PGPUB;	16:14
		(bus adj bar\$2)))	EPO; JPO;	
		\~~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~	DERWENT;	ł l
			IBM TDB	
_	499	347/13	USPAT;	2003/09/16
	""	J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	US-PGPUB;	16:15
	1		EPO; JPO;	
			DERWENT;	I
			IBM TDB	'
l _		347/13 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
1	3	bar\$2)))	US-PGPUB;	16:15
	-	Mary2///	EPO; JPO;	10.13
			DERWENT;	į l
			IBM TDB	
_		(347/13 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
-	4		1 '	2003/09/16
		bar\$2)))) not (347/50 and (busbar\$2 or	US-PGPUB;	16:15
		(bus adj bar\$2)))	EPO; JPO;	
			DERWENT;	
		247/227	IBM_TDB	1 2002 (00 (7.5
-	993	347/237	USPAT;	2003/09/16
			US-PGPUB;	16:19
			EPO; JPO;	
	1		DERWENT;	
	_	247/227	IBM_TDB	
-	l 6	347/237 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
		bar\$2)))	US-PGPUB;	16:16
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	809	347/238	USPAT;	2003/09/16
			US-PGPUB;	16:19
			EPO; JPO;	
			DERWENT;	
	1		IBM_TDB	
-	5	347/238 and ((busbar\$2 or (bus adj	USPAT;	2003/09/16
		bar\$2)))	US-PGPUB;	16:19
			EPO; JPO;	
			DERWENT;	
			IBM TDB	j
				·

US-PGPUB; 16:23 EPO; JPO; DERWENT; IBM TIDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TIDB USPAT;					
- \$2386 347/\$.ccls.	-	57359	347/\$	USPAT;	2003/09/16
- \$2386 347/\$.ccls. DERWENT; IM TOB USPAT; US-EGPUB; EPO; JPO; DERWENT; US-EGPUB; EPO; JPO; JPO; JPO; JPO; JPO; JPO; JPO; J					16:23
S2386 347/\$.ccls. IBM_TDB 2003/09/16 16:23 2003/09/16 16:23 2003/09/16 16:24 2003/09/16					
S2386 347/\$.ccls. USPĀT; 2003/09/16 16:23				•	
- 115 347/\$ and ((busbar\$2 or (bus adj bar\$2))) - 101 (347/\$ and ((busbar\$2 or (bus adj bar\$2))) - 101 (347/\$ and ((busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/13 and ((busbar\$2 or (bus adj bar\$2)))) not (347/13 and ((busbar\$2 or (bus adj bar\$2)))) not (347/13 and ((busbar\$2 or (bus adj bar\$2)))) not (347/13 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/13 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2)) not (busbar\$2 or (bus adj bar\$2)) not (busbar\$2 or (bus adj bar\$2)) not (busbar\$2 or (bus adj	_	52386	347/\$.ccls.	_	2003/09/16
- 115 347/\$ and ((busbar\$2 or (bus adj bar\$2))) - 101 (347/\$ and ((busbar\$2 or (bus adj bar\$2))) - 101 (347/\$ and ((busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2)) not (347/50 and bar\$2)) not (347/50 and ba		02000	3.77 4.0015.	•	
- 115 347/\$ and ((busbar\$2 or (bus adj bar\$2))) - 101 (347/\$ and ((busbar\$2 or (bus adj bar\$2))) - 101 (347/\$ and ((busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus Adj bar\$2)))) not (347/42 and ((busbar\$2 or (bus Adj bar\$2)))) not (347/50 and (busbar\$2 or (bus Adj bar\$2))) not (347/50 and (busbar\$2 or (bus Adj bar\$2)))) not (347/50 and (busbar\$2 or (bus Adj bar\$2))) not (347/50 and (busbar\$2 or (bus Adj ba	1			·	
115 347/\$ and ((busbar\$2 or (bus adj bar\$2)) USPĀT; US-PCPUB; EPO; JPO; DERWENT; IBM TDB USPĀT; US PART USPĀT; USPĀT USPĀT; US PART					
101 (347/\$ and ((busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/42 and ((busbar\$2 or (bus adj bar\$2))) not (347/42 and ((busbar\$2 or (bus adj bar\$2)))) not (347/42 and ((busbar\$2 or (bus adj bar\$2)))) not (347/42 and ((busbar\$2 or (bus adj bar\$2)))) not (347/43 and ((busbar\$2 or (bus adj bar\$2)))) not (347/43 and ((busbar\$2 or (bus adj bar\$2)))) not (347/43 and ((busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/63 and ((busbar\$2 or (bus adj bar\$2))) not (347/63 and ((busbar\$2 or (bus adj bar\$2))) not (347/63 and (busbar\$2 or (bus adj bar\$2))) not (347/63 and (busbar\$				IBM TDB	
- 101 (347/\$ and ((busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/43 and (busbar\$2 or (bus adj bar\$2)))) not (347/450 and (busbar\$2 or (bus adj bar\$2)))) not (347/40 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2)) not (347/50 and (busbar\$2 or (bus adj bar\$2)) not (347	-	115	347/\$ and ((busbar\$2 or (bus adj bar\$2)))	USPĀT;	2003/09/16
- 101 (347/\$ and ((busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (brown adj bar\$2))) not (347/42 and (brown adj bar\$2))) not (347/50 and (brown adj bar\$2))) not (347/50 and (brown adj bar\$2))) not (347/42 and (brown adj bar\$2))) not (347/42 and (brown adj bar\$2))) not (347/42 and (brown adj bar\$2))) not (347/43 and (brown adj bar\$2))) not (347/43 and (brown adj bar\$2))) not (347/43 and (brown adj bar\$2))) not (347/50 and (brown adj bar\$2)) not (347/50 and (brown adj bar\$2) not (347/50 and (brown adj bar\$2)) not (347/50 and (brown adj bar\$2) not (347/50 and (brown adj bar\$2) not (347/50 and (brown adj bar\$2)) not (347/50 and (brown adj bar\$2) not (347/50 and (brown adj bar\$2) not (347/50 and (!				16:24
101 (347/\$ and ((busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) (347/\$ and ((busbar\$2 or (bus adj bar\$2))) (347/\$ and ((busbar\$2 or (bus adj bar\$2))) (busbar\$2 or (bus adj bar\$2))) (busbar\$2 or (bus adj bar\$2))) (busbar\$2 or (bus adj bar\$2))) (bus adj bar\$2))) (bus adj bar\$2))) (c) ((347/\$ and ((busbar\$2 or (bus adj bar\$2))) (c) ((347/\$ and ((busbar\$2 or (bus adj bar\$2)))) (c) ((bus adj bar\$2)))) (c) ((a) (a) (a) (busbar\$2 or (bus adj bar\$2))) (c) ((a) (a) (a) (busbar\$2 or (bus adj bar\$2))) (c) ((a) (a) (a) (a) (busbar\$2 or (bus adj bar\$2))) (c) ((a) (a) (a) (a) (busbar\$2 or (bus adj bar\$2))) (c) ((a) (a) (a) (a) (busbar\$2 or (bus adj bar\$2))) (c) (c) (a) (a) (a) (a) (a) (a) (a) (a) (a) (a	1 1		'		
101 (347/\$ and ((busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) not (347/42 and (busbar\$2 or (bus adj bar\$2))) not (347/42 and (busbar\$2 or (bus adj bar\$2))) not (347/42 and (busbar\$2)) ((347/\$ and ((busbar\$2 or (bus adj bar\$2))) not (347/42 and ((busbar\$2))) not (347/42 and ((busbar\$2)) not (347/42 and ((busbar\$2))) not (347/42 and ((busbar\$2))) not (347/42 and ((busbar\$2))) not (347/42 and ((busbar\$2)) not (347/42 and ((busbar\$2))) not (347/42 and ((busbar\$2))) not (347/42 and ((busbar\$2)) not (347/42 and ((busbar\$2))) not (347/42 and ((busbar\$2))) not (347/42 and ((busbar\$2)) not (347/42 and ((busbar\$2))) not (347/42 and ((busbar\$2))) not (347/42 and ((busbar\$2)) not (347/42 and ((busba				·	
bar\$2])) not (347/50 and (busbar\$2 or (bus adj bar\$2)))	_	101	1347/\$ and [[hushar\$2 or [hus add	_	2003/09/16
(bus adj bar\$2))	-	101			
- 91 ((347/\$ and ((busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2))) not (347/42 and (busbar\$2) or ((busbar\$2) or ((busbar\$2) or (bus adj bar\$2)))) not (347/42 and (busbar\$2) or (bus adj bar\$2))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2))) not (347/42 and (busbar\$2))) not (347/42 and (busbar\$2)))) not (347/42 and (busbar\$2))) not (347/42 and (busbar\$2)))) not (347/42 and (busbar\$2))) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2))) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2))) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2))) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2))) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2) not (347/50 and (busbar\$2)) not (347/50 and (busbar\$2) not (347/50 and (busbar\$2)) not (347/50					10.24
Second Color			(245 44) 2427277		
91 ((347/\$ and ((busbar\$2 or (bus adj bar\$2)))) not (347/\$0 and (busbar\$2 or (bus adj bar\$2)))) not (347/\$42 and ((busbar\$2 or (bus adj bar\$2)))) not (347/\$42 and ((busbar\$2 or (bus adj bar\$2)))) not (347/\$42 and (busbar\$2 or (bus adj bar\$2)))) not (347/\$50 and (busbar\$2 or (bus adj bar\$2)))) not (347/\$42 and (busbar\$2)))) not (347/\$43 and ((busbar\$2 or (bus adj bar\$2)))) not (347/\$42 and (busbar\$2)))) not (347/\$43 and (busbar\$2 or (bus adj bar\$2)))) not (347/\$43 and ((busbar\$2 or (bus adj bar\$2)))) not (347/\$45 and ((busbar\$2 or (bus adj bar\$2))) not (347/\$45 and ((busbar\$2 or (bus adj bar\$2)))) not (347/\$45 and ((busbar\$2 or (bus adj bar\$2))) not (347/\$45 and ((busbar\$2 or (bus adj bar\$2))) not (347/\$45 and (busbar\$2 or (bus adj bar\$2)) not (347/\$45 and (busbar					
(bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2))) (((347/\$ and ((busbar\$2 or (bus adj bar\$2)))) (((busbar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/42 and ((busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) (("439358414") or ("4635075") or ("4769527") or ("4899184") or ("4635075") or ("4769527") or ("4899184") or ("5057855") or ("5317344")) PN. 8 (US-5317344"-\$ or US-4534814-\$ or US-4021851-\$ or US-4021851-\$ or US-4635075-\$ or US-4021851-\$ or US-3903594-\$ or US-5057855-\$ or US-4635075-\$ or US-4021851-\$ or US-3903594-\$ or US-5057855-\$ or US-4635075-\$ or US-4021851-\$ or US-3903594-\$ or US-5057855-\$ or US-4021851-\$ or US-30309/25 16:16 96 thermal adj bend adj actuat\$4 - 80 347/\$.ccls. and (thermal adj bend adj actuat\$4 - 23 347/\$0.ccls. and (thermal adj bend adj actuat\$4 - 41 (thermal adj bend adj actuat\$4) with nozzle\$2	-	91			2003/09/16
((busbar\$2 or (bus adj bar\$2)))				· ·	16:24
Second Color					
89	,		((busbar\$2 or (bus adj bar\$2))))		·
bar\$2))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/13 and ((busbar\$2 or (bus adj bar\$2))))		0.0	///247/6		2003/00/16
(bus adj bar\$2))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) 89 (((347/3) and ((busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/13 and ((busbar\$2 or (bus adj bar\$2)))) not (347/30 and (busbar\$2 or (bus adj bar\$2)))) not (347/30 and (busbar\$2 or ("4021851") or ("4021851") or ("4769527") or ("4899184") or ("5057855") or ("5317344") PN. 8 (US-5317344"> or US-4534814"> or US-4769184"> Or US-4021851"> or US-402185	-	89	, , , , , , , , , , , , , , , , , , , ,		
((busbar\$2 or (bus adj bar\$2)))) not (347/13 and ((busbar\$2 or (bus adj bar\$2))) ((((347/\$ and ((busbar\$2 or (bus adj bar\$2)))) not (347/\$ and ((busbar\$2 or (bus adj bar\$2)))) not (347/\$ and (busbar\$2 or (bus adj bar\$2)))) not (347/\$ and ((busbar\$2 or (bus adj bar\$2)))) not (347/\$ and ((busbar\$2 or (bus adj bar\$2)))) not ((347/\$ and ((busbar\$2 or ("4534814") or ("4635075") or ("4769527") or ("4899184") or ("5317344") or ("5057855") or ("5317344") or ("5057855") or ("5317344") or ("5057855") or ("5					10.24
G347/13 and ((busbar\$2 or (bus adj bar\$2)))				1	
Bas\$2)))					
- 89 ((((347/\$ and ((busbar\$2 or (bus adj bar\$2)))) not (347/\$0 and (busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/42 and (busbar\$2 or (bus adj bar\$2)))) not (347/13 and ((busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) - 8 (("3903594") or ("4021851") or ("434814") or ("4635075") or ("4769527") or ("4899184") or ("5057855") or ("5317344")).PN 8 (US-5317344-\$ or US-4534814-\$ or US-4021851-\$ or US-4021851-\$ or US-4021851-\$ or US-4035075-\$ or US-4021851-\$ or US-48599184-\$).did 8 ((US-5317344-\$ or US-4534814-\$ or US-5057855-\$ or US-4635075-\$ or US-4021851-\$ or US-4534814-\$ or US-4769527-\$ or US-4635075-\$ or US-4021851-\$ or US-4635075-\$ or US-4052851-\$					
(bus adj bar\$2))) not (347/42 and ((busbar\$2 or (bus adj bar\$2)))) not (347/13 and ((busbar\$2 or (bus adj bar\$2)))) not ((347/13 and ((busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2))) ("4534814") or ("4635075") or ("4769527") or ("4899184") or ("5057855") or ("5317344")).PN. - 8 (US-5317344-\$ or US-4534814-\$ or US-4769527") uS-PGPUB 13:27 - 8 (US-5317344-\$ or US-4534814-\$ or US-4769527") or US-5057855-\$ or US-4899184-\$).did. (US-5317344-\$ or US-3903594-\$ or US-5057855-\$ or US-4899184-\$).did. (US-5317344-\$ or US-4534814-\$ or US-4769527-\$ or US-4534814-\$ or US-4769527-\$ or US-4899184-\$).did. (US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) thermal adj bend adj actuat\$4 USPAT 2003/09/25 actuat\$4\) - 96 thermal adj bend adj actuat\$4 USPAT 2003/09/25 actuat\$4\) - 2 347/\$0.ccls. and (thermal adj bend adj actuat\$4\) - 2 347/\$0.ccls. and (thermal adj bend adj actuat\$4\) (thermal adj bend adj actuat\$4\) (USPAT 2003/09/25 actuat\$4\) actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\) with (DSPAT 2003/09/25 actuat\$4\) (thermal adj bend adj actuat\$4\)	-	89		USPAT;	2003/09/16
((busbar\$2 or (bus adj bar\$2)))) not (347/13 and ((busbar\$2 or (bus adj bar\$2)))) not (347/13 and ((busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2) or (bus adj bar\$2)))) 8 (("3903594") or ("4021851") or ("4534814") or ("4635075") or ("4769527") or ("4899184") or ("5057855") or ("5317344")).PN. 8 (US-5317344"> 8 (US-5317344"> 1 USPAT; 2003/09/25 (USPAT; 2003/09/25 (US-4021851")) or ("5317344")).PN. 8 (US-5317344"> 1 USPAT (USPAT (USPAT) (USPAT			bar\$2)))) not (347/50 and (busbar\$2 or	1	16:24
(347/13 and ((busbar\$2 or (bus adj bar\$2)))) not ((347/13 and ((busbar\$2 or (bus adj bar\$2)))) not ((347/50 and (busbar\$2 or (bus adj bar\$2)))) 8 (("3903594") or ("4021851") or ("4769527") or ("4899184") or ("4635075") or ("4769527") or ("4899184") or ("5057855") or ("5317344")).PN. 8 (US-5317344")).PN. 8 (US-5317344") or US-4534814-\$ or US-4769527") or US-4021851-\$ or US-4635075-\$ or US-4625075-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did. 9 ((US-5317344-\$ or US-4534814-\$ or US-4534814-\$ or US-45317344-\$ or US-4534814-\$ or US-45317344-\$ or US-4534814-\$ or US-4021851-\$ or US-4534814-\$ or US-45317344-\$ or US-45317344-\$ or US-4534814-\$ or US-4021851-\$ or US-4635075-\$ or US-4021851-\$ or US-4635075-\$ or US-4625075-\$ or US-4635075-\$ or US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) thermal adj bend adj actuat\$4 96 thermal adj bend adj actuat\$4 97 0347/\$.ccls. and (thermal adj bend adj actuat\$4) uspat 2003/09/25 actuat\$4) 2 347/50.ccls. and (thermal adj bend adj actuat\$4) 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 actuat\$4) 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 actuat\$4) 42 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 actuat\$4) 43 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 actuat\$4)					
bar\$2)))) not ((347/13 and ((busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2))))					
(bus adj bar\$2)))) not (347/50 and (busbar\$2 or (bus adj bar\$2)))) (("3903594") or ("4021851") or ("4534814") or ("4534814") or ("453675") or ("4769527") or ("4899184") or ("5057855") or ("5317344") PN. 8 (US-5317344-\$ or US-4534814-\$ or US-4021851-\$ or US-4021851-\$ or US-4635075-\$ or US-4057855-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did. ((US-5317344-\$ or US-4534814-\$ or USPAT 2003/09/25 US-4021851-\$ or US-3903594-\$ or US-4021851-\$ or US-3903594-\$ or US-4021851-\$ or US-3903594-\$ or US-4031851-\$ or US-4635075-\$ or US-4635075-\$ or US-4635075-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) thermal adj bend adj actuat\$4 USPAT 2003/09/25 actuat\$4) 96 347/\$.ccls. and (thermal adj bend adj uSPAT 2003/09/25 actuat\$4) - 2 347/50.ccls. and (thermal adj bend adj actuat\$4) uSPAT 2003/09/25 actuat\$4) 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 16:16	,			I TEM_I DE	j
(busbar\$2 or (bus adj bar\$2)))			bary2//// Not ((347/13 and ((busbary2 of)		
8 (("3903594") or ("4021851") or ("4769527") or ("4534814") or ("4635075") or ("4769527") or ("4534814") or ("5057855") or ("5317344")).PN. 8 (US-5317344-\$ or US-4534814-\$ or US-4021851-\$ or US-4021851-\$ or US-4635075-\$ or US-45057855-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did. 8 ((US-5317344-\$ or US-4534814-\$ or US-4534814-\$ or US-4021851-\$ or US-4534814-\$ or US-4021851-\$ or US-4534814-\$ or US-4769527-\$ or US-4635075-\$ or US-4769527-\$ or US-4635075-\$ or US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) 96 thermal adj bend adj actuat\$4 97	1				
("4534814") or ("4635075") or ("4769527") or ("4899184") or ("5057855") or ("5317344")).PN. (US-5317344")).PN. (US-5317344-\$ or US-4534814-\$ or US-4769527-\$ or US-4635075-\$ or US-4769527-\$ or US-4635075-\$ or US-4534814-\$ or US-5057855-\$ or US-4899184-\$).did. ((US-5317344-\$ or US-4635075-\$ or US-4899184-\$).did. ((US-5317344-\$ or US-4534814-\$ or US-4021851-\$ or US-4534814-\$ or US-4769527-\$ or US-4899184-\$).did. USPAT 2003/09/25 16:15 USPAT 2003/09/25 16:16 96 thermal adj bend adj actuat\$4 USPAT 2003/09/25 16:16 80 347/\$.ccls. and (thermal adj bend adj actuat\$4) - 2 347/50.ccls. and (thermal adj bend adj actuat\$4) - 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 16:15 10:15	_	8		USPAT;	2003/09/25
- 8 ("5317344")).PN. (US-5317344-\$ or US-4534814-\$ or US-4021851-\$ or US-3903594-\$ or US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did. ((US-5317344-\$ or US-4534814-\$ or US-4021851-\$ or US-4534814-\$ or US-4021851-\$ or US-4534814-\$ or US-4021851-\$ or US-4635075-\$ or US-469527-\$ or US-4635075-\$ or US-5057855-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) thermal adj bend adj actuat\$4 - 96 347/\$.ccls. and (thermal adj bend adj actuat\$4 - 2 347/\$0.ccls. and (thermal adj bend adj actuat\$4) - 2 347/50.ccls. and (thermal adj bend adj actuat\$4) - 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 16:15 - 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 16:16			("4534814") or ("4635075") or ("4769527")	US-PGPUB	13:27
8 (US-5317344-\$ or US-4534814-\$ or US-4021851-\$ or US-3903594-\$ or US-4769527-\$ or US-4899184-\$).did. 8 ((US-5317344-\$ or US-4534814-\$ or US-4534814-\$ or US-4021851-\$ or US-4534814-\$ or US-4021851-\$ or US-3903594-\$ or US-4021851-\$ or US-3903594-\$ or US-4769527-\$ or US-4635075-\$ or US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) 96 thermal adj bend adj actuat\$4 98 347/\$.ccls. and (thermal adj bend adj actuat\$4 - 2003/09/25 16:16 2 347/50.ccls. and (thermal adj bend adj actuat\$4) - 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 16:15 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 16:16					
US-4021851-\$ or US-3903594-\$ or US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did. ((US-5317344-\$ or US-4534814-\$ or USPAT 2003/09/25 US-4021851-\$ or US-3903594-\$ or US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) + 96 thermal adj bend adj actuat\$4 USPAT 2003/09/25 16:16 80 347/\$.ccls. and (thermal adj bend adj actuat\$4) - 2 347/50.ccls. and (thermal adj bend adj actuat\$4) 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 16:15 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 16:16		_		TIGDAE.	2002/00/25
US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did. ((US-5317344-\$ or US-4534814-\$ or USPAT 2003/09/25 US-4021851-\$ or US-3903594-\$ or US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) 40	-	8	l '	USPAT	1
US-5057855-\$ or US-4899184-\$).did. ((US-5317344-\$ or US-4534814-\$ or USPAT 2003/09/25 US-4021851-\$ or US-3903594-\$ or US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) 40			1		13.20
- 8 ((US-5317344-\$ or US-4534814-\$ or US-4021851-\$ or US-3903594-\$ or US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) - 96 thermal adj bend adj actuat\$4 USPAT 2003/09/25 16:16 - 80 347/\$.ccls. and (thermal adj bend adj actuat\$4) - 2 347/50.ccls. and (thermal adj bend adj actuat\$4) - 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 16:16			l ·		
US-4021851-\$ or US-3903594-\$ or US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) - 96 thermal adj bend adj actuat\$4	-	8		USPAT	2003/09/25
US-4769527-\$ or US-4635075-\$ or US-5057855-\$ or US-4899184-\$).did.) and (busbar\$2 or (bus adj bar\$2)) 1		_	US-4021851-\$ or US-3903594-\$ or		
(busbar\$2 or (bus adj bar\$2)) thermal adj bend adj actuat\$4 - 80 347/\$.ccls. and (thermal adj bend adj actuat\$4) - 2 347/50.ccls. and (thermal adj bend adj actuat\$4) - 41 (thermal adj bend adj actuat\$4) with nozzle\$2 (busbar\$2 or (bus adj bar\$2)) USPAT 2003/09/25 16:16			US-4769527-\$ or US-4635075-\$ or		.
- 96 thermal adj bend adj actuat\$4 USPAT 2003/09/25 16:16 - 80 347/\$.ccls. and (thermal adj bend adj actuat\$4) - 2 347/50.ccls. and (thermal adj bend adj actuat\$4) - 41 (thermal adj bend adj actuat\$4) with nozzle\$2 - 1003/09/25 - 10:16	'				
- 80 347/\$.ccls. and (thermal adj bend adj uspat 2003/09/25 actuat\$4) - 2 347/50.ccls. and (thermal adj bend adj uspat 2003/09/25 actuat\$4) - 41 (thermal adj bend adj actuat\$4) with uspat 2003/09/25 nozzle\$2					0000 /00 /05
- 80 347/\$.ccls. and (thermal adj bend adj uspat 2003/09/25 actuat\$4) - 2 347/50.ccls. and (thermal adj bend adj uspat 2003/09/25 actuat\$4) - 41 (thermal adj bend adj actuat\$4) with nozzle\$2 USPAT 2003/09/25 16:15	-	96	tnermal adj bend adj actuat\$4	USPAT	1
actuat\$4) 2 347/50.ccls. and (thermal adj bend adj actuat\$4) 41 (thermal adj bend adj actuat\$4) with nozzle\$2 16:16 USPAT 2003/09/25 16:16	_	80	347/\$ ccls and (thermal add bend add	IISDAT	1 1
- 2 347/50.ccls. and (thermal adj bend adj USPAT 2003/09/25 actuat\$4)	-		•	USERI	1
actuat\$4) - 41 (thermal adj bend adj actuat\$4) with USPAT 2003/09/25 nozzle\$2 16:16	_	2		USPAT	1
nozzle\$2 16:16		_			
nozzle\$2 16:16	-	41	· '	USPAT	
			nozzle\$2		
	-	37		USPAT	2003/09/25
actuat\$4) with nozzle\$2) 16:16	1		actuat\$4) with nozzle\$2)	l	16:16